

SPIDERS OF JABALPUR DISTRICT (ARACHNIDA:ARANEAE): UPDATED CHECKLIST 2011

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ABSTRACT

This is the first formal attempt to update the list of spiders described from Jabalpur district of Madhya Pradesh. The World Spider Catalog by Platnick is followed to compile the list. Scientific literature is extensively searched to reveal 21 new species which are not found in Platnick's catalog. Tikader's list is used for extensive comparison of the list. Overall, 117 spider species under 20 families and 58 genera have been listed as formally described from district Jabalpur. The paper lists synonymised spider taxa and transfers in taxonomic positions.

Key words: Arachnida, Araneae, Checklist, Jabalpur, Platnick, review, spiders, Tikader, synonym, taxonomic transfer

INTRODUCTION

The available world list of spiders includes around 42473 species under 3849 genera and 110 families (Platnick, 2011: Version 12.0). Tikader (1987) described 1067 species from India in his checklist of Indian spiders. India archnologists have followed mainly Tikader's 1987 publication. As regional taxonomist it is necessary to review and revise the available checklists from the region. With this view, I have compiled spider checklist of Jabalpur district (M. P.) as a part of larger picture of revising such a list for Madhya Pradesh. The changes in the current list are with reference to Tikader's list published in 1987. Present checklist is an attempt to revise and standardize spider fauna list of district Jabalpur (M.P.).

Before Tikader (1980, 82b) the spiders of many families were not studied from Madhya Pradesh; Tikader described detail account of many species from families Araneidae, Gnaphosidae, Lycosidae, Philodromidae and Thomisidae from this region and rest of India. Spiders from Madhya Pradesh and Chhattisgarh were mainly studied by Gajbe during 1983-1999, who described new species from the region including some species from Jabalpur district. Gajbe (1995) also recorded spiders from Kanha Tiger Reserve, Madhya Pradesh and Indravati Tiger Reserve, Chhattisgarh. Recently, Gajbe (2004a;b and c) had given detail account of 24 new species and Bhandari & Gajbe (2001) described 10 new species and Gajbe (2004) described 21 new species from the Jabalpur district, Madhya Pradesh. Overall 107 spider species were recorded by Gajbe (2004) from the district and he also have recorded 127 spider species from Madhya Pradesh including Chhattisgarh.

MATERIALS AND METHODS

Extensive review of published literature from the Jabalpur district and rest of the region of Madhya Pradesh including Chhattisgarh was undertaken. Tikader's (1987) list of 1067 Indian spider was referred while compiling the list. The World Spider Catalog (Platnick, 2011: version 12) is followed while revising and compiling the checklist of Jabalpur district of Madhya Pradesh. The list includes current valid scientific names along with synonymised spider taxa and transfers in taxonomic positions genera/species are also included while compiling the list. The paper lists all the recent records of spider species from Jabalpur district published literature. The paper is based on the region's most recent works by Gajbe (2004) and Gajbe (2007).

RESULTS AND DISCUSSION

There are 117 spider species under 58 genera of 20 families which are recorded formally from the Jabalpur district of Madhya Pradesh (refer checklist). The families representing highest number of species in Jabalpur district are the Araneidae (with 25 species under 8 genera) followed by the Thomisidae (with 24 species under 8 genera) while family Gnaphosidae represents highest number of genera (13 genera with 17 species). There are 9 monotypic families represented by single species and genus.

Table-1. Representation of the spider families in Jabalpur District

Sr. No.	Families	Genera	Species
1.	AGELENIDAE	1	1
2.	ARANEIDAE	8	25
3.	DICTYNIDAE	1	1
4.	ERESIDAE	1	1
5.	GNAPHOSIDAE	13	17
6.	HERSILIDAE	1	1
7.	LYCOSIDAE	4	16
8.	NEPHILIDAE	1	1
9.	OECOBIIDAE	1	1
10.	OONOPIDAE	1	1
11.	OXYOPIDAE	2	5
12.	PHILODROMIDAE	4	9
13.	PHOLCIDAE	2	2
14.	SALTICIDAE	4	5
15.	SCYTODIDAE	1	1
16.	SPARASSIDAE	1	1
17.	TETRAGNATHIDAE	2	2
18.	THOMISIDAE	8	24
19.	ULOBORIDAE	1	2
20.	UROCTEIDAE	1	1
Total: 20 Families		58 Genera	117 Species

An Updated checklist of Spiders of Jabalpur District (up to June, 2011)

I. FAMILY AGELENIDAE KOCH, 1837**Genus XIII. *Tegenaria* Latreille, 1804**

1. *comstocki* Gajbe, 2004

II. FAMILY ARANEIDAE SIMON, 1895**Genus Xa. *Araneus* Clerck, 1757**

1. *mitificus* (Simon, 1886)

Genus Xb. *Argiope* Audouin, 1826

1. *aemula* (Walckenaer, 1842)

Genus Xc. *Chorizopes* Cambridge, 1870

1. *kastoni* Gajbe & Gajbe, 2004
2. *tikaderi* Sadana & Kaur, 1974

Genus Xd. *Cyclosa* Menge, 1866

1. *confraga* (Thorell, 1892)
2. *moonduensis* Tikader, 1963
3. *spirifera* Simon, 1889

Genus Xe. *Cyrtophora* Simon, 1864

1. *cicatrosa* (Stoliczka, 1869)
2. *citricola* (Forsk., 1775)
3. *jabalpurensis* Gajbe & Gajbe, 1999

Genus Xf. *Larinia* Simon, 1874

1. *bharatae* Bhandari & Gajbe, 2001
2. *chloris* (Audouin, 1826)
3. *emertoni* Gajbe & Gajbe, 2004

Genus Xg. *Neoscona* Simon, 1864

1. *biswasi* Bhandari & Gajbe, 2001
2. *dyali* Gajbe, 2004
3. *elliptica* Tikader & Bal, 1981
4. *mukerjei* Tikader, 1980
5. *nautica* (L. Koch, 1875)
6. *platnicki* Gajbe & Gajbe, 2001
7. *vigilans* (Blackwall, 1865)
8. *sanghi* Gajbe, 2004
9. *sanjivani* Gajbe, 2004
10. *theisi* (Walckenaer, 1842)
11. *sinhagadensis* (Tikader, 1975)

Genus Xh. *Zygeilla* Cambridge, 1902

1. *indica* Tikader & Bal, 1980

III. FAMILY DICTYNIDAE CAMBRIDGE, 1871**Genus XIV. *Nigma* Lehtinen, 1967**

1. *shiprai* (Tikader, 1966)

IV. FAMILY ERESIDAE KOCH, 1851**Genus IV. *Stegodyphus* Simon, 1873**

1. *sarasinorum* Karsch, 1891

V. FAMILY GNAPHOSIDAE POCOCK, 1898**Genus XVa. *Callilepis* Westring, 1874**

1. *lambai* Tikader & Gajbe, 1977
2. *rukminiae* Tikader & Gajbe, 1977

Genus XVb. *Setaphis* Simon, 1893

1. *subtilis* (Simon, 1897)

Genus XVc. *Gnaphosa* Latreille, 1804

1. *poonaensis* Tikader, 1973

Genus XVd. *Herpyllus* Hentz, 1832

1. *goaensis* Tikader, 1982

Genus XVe. *Nodocion* Chamberlin, 1922

1. *tikaderi* (Gajbe, 1992)

Genus XVf. *Megamyrmaekion* Wider, 1834

1. *ashae* Tikader & Gajbe, 1977

Genus XVg. *Poecilochroa* Westring, 1874

1. *barmani* Tikader, 1982

Genus XVh. *Scopoides* Platnick, 1989

1. *maitraiae* (Tikader & Gajbe, 1977)

Genus XVI. *Scotophaeus* Simon, 1893

1. *poonaensis* Tikader, 1982

Genus XVj. *Sergiolus* Simon, 1891

1. *lamhetaghatensis* Gajbe & Gajbe, 1999
2. *singhi* Tikader & Gajbe, 1976
3. *poonaensis* Tikader & Gajbe, 1976

Genus XVk. *Sosticus* Chamberlin, 1922

1. *jabalpurensis* Bhandari & Gajbe, 2001
2. *dherikanalensis* Gajbe, 1979

Genus XVI. *Zelotes* Gistel, 1848

1. *jabalpurensis* Tikader & Gajbe, 1976

Genus XVm. *Drassodes* Westring, 1851

1. *sagarensis* Tikader, 1982

VI. FAMILY HERSILIIDAE THORELL, 1870**Genus VII. *Hersilia* Audouin, 1826**

1. *savignyi* Lucas, 1836

VII. FAMILY HETEROPODIDAE/SPARASSIDAE BERTKAU, 1872**Genus XVI. *Heteropoda* Latreille, 1804**

1. *Heteropoda* sp.

VIII. FAMILY LYCOSIDAE SUNDEVALL, 1833**Genus XIa. *Arctosa* Koch, 1847**

1. *indica* Tikader & Malhotra, 1980

Genus XIb. *Hippasa* Simon, 1885

1. *fabrae* Gajbe & Gajbe, 1999
2. *hansae* Gajbe & Gajbe, 1999
3. *partita* Cambridge, 1876
4. *pisaurina* Pocock, 1900
5. *wigglesworthi* Gajbe & Gajbe, 1999

Genus XIc. *Lycosa* Latreille, 1804

1. *nigrotibialis* Simon, 1884
2. *shaktae* Bhandari & Gajbe, 2001
3. *bistriata* Gravely, 1924

Genus XId. *Pardosa* Koch, 1847

1. *birmanica* Simon, 1884
2. *jabalpurensis* Gajbe & Gajbe, 1999
3. *mukundi* Tikader & Malhotra, 1980
4. *ranjani* Gajbe, 2004
5. *sumatrana* (Thorell, 1890)
6. *amkhasensis* Tikader & Malhotra, 1976
7. *pseudoannulata* (Bosenberg & Strand, 1906)

IX. FAMILY NEPHILIDAE SIMON, 1894**Genus XXa. *Nephila* Leach, 1815**

1. *pilipes* (Fabricius, 1793)

X. FAMILY OECOBIIDAE BLACKWALL, 1862**Genus V. *Oecobius* Lucas, 1846**

1. *putus* Cambridge, 1876

XI. FAMILY OONOPIDAE SIMON, 1890**Genus III. *Triaeris* Simon, 1891**

1. *barela* Gajbe, 2004

XII. FAMILY OXYOPIDAE THORELL, 1870**Genus XIIa. *Oxyopes* Latreille, 1804**

1. *jabalpurensis* Gajbe & Gajbe, 1999
2. *ketani* Gajbe & Gajbe, 1999
3. *pankaji* Gajbe & Gajbe, 2001

Genus XIIb. *Peucetia* Thorell, 1869

1. *ashae* Gajbe & Gajbe, 1999
2. *jabalpurensis* Gajbe & Gajbe, 1999

XIII. FAMILY PHILODROMIDAE THORELL, 1870**Genus XVIIa. *Oxytate* Koch, 1878**

1. *elongata* (Tikader, 1980)

Genus XVIIb. *Philodromus* Walckenaer, 1826

1. *ashae* Gajbe & Gajbe, 1999
2. *durvei* Tikader, 1980
3. *jabalpurensis* Gajbe & Gajbe, 1999
4. *pali* Gajbe & Gajbe, 2001
5. *sanjeevi* Gajbe, 2004

Genus XVIIc. *Thanatus* Koch, 1837

1. *jabalpurensis* Gajbe & Gajbe, 1999
2. *ketani* Bhandari & Gajbe, 2001

Genus XVIIId. *Tibellus* Simon, 1875

1. *jabalpurensis* Gajbe & Gajbe, 1999

XIV. FAMILY PHOLCIDAE KOCH, 1851**Genus IIa. *Artema* Walckenaer, 1837**

1. *atlanta* Walckenaer, 1837

Genus IIb. *Pholcus* Walckenaer, 1805

1. *Pholcus* sp.

- XV. FAMILY SALTICIDAE BLACKWALL, 1841**
Genus XIXa. *Marpissa* Koch, 1846
 1. *dhakuriensis* Tikader,
Genus XIXb. *Plexippus* C. L. Koch, 1846
 1. *paykulli* (Audouin 1826)
Genus XIXc. *Phidippus* Koch, 1846
 2. *bhimrakshiti* Gajbe, 2004
Genus XIXd. *Rhene* Thorell, 1869
 1. *haldanei* Gajbe, 2004
 2. *sanghrakshiti* Gajbe, 2004
- XVI. FAMILY SCYTODIDAE BLACKWALL, 1864**
Genus I *Scytodes* Latreille, 1804
 1. *alfredi* Gajbe, 2004
- XVII. FAMILY TETRAGNATHIDAE MENGE, 1866**
Genus IXa. *Tetragnatha* Latreille, 1804
 1. *chamberlini* (Gajbe, 2004)
Genus IXb. *Leucauge* White, 1841
 1. *decorata* (Blackwall, 1864)
- XVIII. FAMILY THOMISIDAE SUNDEVALL, 1833**
Genus XVIIIa. *Misumenoides* Cambridge, 1900
 1. *gwarighatensis* Gajbe, 2004
Genus XVIIIb. *Monaeses* Thorell, 1869
 1. *jabalpurensis* Gajbe & Rane, 1992
Genus XVIIIc. *Ozyptila* Simon, 1864
 1. *amkhasensis* Tikader, 1980
 2. *jabalpurensis* Bhandari & Gajbe, 2001
Genus XVIIIId. *Runcinia* Simon, 1875
 1. *khandari* Gajbe, 2004
 2. *yogeshi* Gajbe & Gajbe, 2001
 3. *affinis* Simon, 1897
Genus XVIIIe. *Synema* Simon, 1864
 1. *decoratum* Tikader, 1960
Genus XVIIIIf. *Thomisus* Walckenaer, 1805
 1. *bargi* Gajbe, 2004
 2. *danieli* Gajbe, 2004
 3. *pateli* Gajbe, 2004
 4. *pathaki* Gajbe, 2004
 5. *rajani* Bhandari & Gajbe, 2001
 6. *simoni* Gajbe, 2004
 7. *sundari* Gajbe & Gajbe, 2001
 8. *viveki* Gajbe, 2004
 9. *whitakeri* Gajbe, 2004
 10. *pugilis* Stoliczka, 1869
Genus XVIIIg. *Tmarus* Simon, 1875
 1. *jabalpurensis* Gajbe & Gajbe, 1999
Genus XVIIIh. *Xysticus* Koch, 1835
 1. *bengalensis* Tikader & Biswas, 1974
 2. *bharatae* Gajbe & Gajbe, 1999
 3. *jabalpurensis* Gajbe & Gajbe, 1999
 4. *minutus* Tikader, 1960
 5. *tikaderi* Bhandari & Gajbe, 2001

XIX. FAMILY ULOBORIDAE THORELL, 1869**Genus VIII. *Uloborus* Latreille, 1806**

1. *danolius* Tikader, 1969
2. *jabalpurensis* Bhandari & Gajbe, 2001

XX. FAMILY UROCTEIDAE**Genus VI. *Uroctea* Dufour**

1. *indica* Pocock

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